

# Inventions & Innovation Emerging Technology

## Miniature, Inexpensive, Amperometric Oxygen Sensor

A new sensor to measure oxygen partial pressure from parts-per-million levels to 100% oxygen has been developed. It has particularly good sensitivity in the combustion range of 0.1% to 5% oxygen partial pressure. The new amperometric sensor, which is a multi-layer ceramic capacitor, is ideal for inexpensive mass production. The large reduction in cost of the sensor will economically allow any combustion process, including industrial, commercial, and residential furnaces and boilers, to be more closely monitored and controlled, thus saving energy.



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